



SHIP & SHORE
ENVIRONMENTAL, INC.

Represented by



International

A Global Business Enterprise
S&M International


COMPANY PROFILE

Ship & Shore Environmental

Clean Air Solutions Made in America

Ship & Shore Environmental is your complete source for industrial air pollution capture and control. We specialize in the engineering, design, fabrication, and maintenance of pollution abatement equipment as well as plant optimization services. Ship & Shore is a global, women-owned business that serves a variety of industries by offering extensive process review and innovative, customized environmental solutions. It is our goal to maximize our clients' competitive edge by improving their overall performance and profitability while lowering emissions, consumption, and operating costs.



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TECHNICAL EXPERIENCE & EXPERTISE

Anoosheh M. Oskouian, President and CEO



Oskouian has won several industry awards and has assembled a team of experienced process engineers, expert craftsmen, and skilled technicians that work together to ensure the success of each project. With a higher education and background in chemical engineering, she can offer customized abatement system designs that can offer a quick ROI. Ship & Shore's proven 100% compliance track record is a reflection of the team's expertise and dedication to excellence.

Her company is known by industry and air quality authorities such as the EPA, AQMD, and other local and state agencies, for designing and supplying reliable air pollution control systems that meet stringent air pollution abatement regulations in various applications and processes.

Anoosheh's strong technical knowledge along with a very good business sense gives her the ability to help others find innovative solutions in complying with new environmental regulations. As she continues to grow her own company, she helps others grow their own business.

- Hudson-Sharp

John Von Bargaen, VP of Engineering

As the co-founder of Ship & Shore Environmental, John Von Bargaen brings his 30+ years of experience designing and developing innovative pollution solutions for a variety of industrial manufacturing applications, including expanded polystyrene (EPS) and pentane applications, bulk solvent and gasoline terminals, barge de-gassing, coil coating, and other industries. His expertise includes unmatched process knowledge and extensive engineering of improved energy efficiency for plant operations.

Anu Vij, Chief Operating Officer

Vij is a seasoned global operations and technical leader with over two decades of experience in the environmental, chemical, petrochemical, and air pollution control industries. His experience in process and mechanical systems, as well as thermal oxidation technologies, allows him to effectively oversee the Ship & Shore Sales, Engineering, Project Management, and Production teams.



John Von Bargaen, VP of Engineering (left) and Anu Vij, COO (right)

INDUSTRIES SERVED



- Flexible Packaging and Printing (Flexo)
- Expanded Polystyrene (EPS)
- Composite Manufacturing
- Fiberglass Reinforced Plastics (FRP) and Styrene
- Film/Adhesive Coating
 - Resin & Coating
 - Fastener Coating
 - Landfill Biogas
 - Pharmaceuticals
 - Rendering
 - Food Processing
- Refineries/Chemical Plants

Ship & Shore provides quality customized solutions specific to your industry

Over 85% of the companies in the EPS industry have installed a Ship & Shore Pollution abatement unit

Every application includes extensive process review

We are heavily involved in several industry trade associations

- Soil Remediation
- Oil and Gas
- Groundwater and Wastewater Treatment
- Barge Degassing
- Bulk Solvent
- Gasoline Terminals
- Can and Coil Coating
- Chemical and Petrochemical
- Commercial Printing
- Electronics
- Semiconductor
- Wood Products
- Pulp and Paper



THE SHIP & SHORE ADVANTAGE

- Equipment Designed & Manufactured in USA
- 100% Compliance & Success Rate on All Projects
- Complete In-House Engineering Team & Disciplines
- VOC Abatement Equipment & Collection System Design
- Engineered and Designed Specific to Process
- In-House Project Engineer Manages Each Project
- Installation, Commissioning, and Aftermarket Service
- 24/7 Factory-Trained Service by Telephone
- Customized Heat & Energy Recovery Solutions
- Industrial Energy Efficiency Analysis & Recommendations
- Assistance with Rebate & Incentive Programs
- Assistance with Air Quality Compliance Permits

Ship & Shore facilitated all the necessary paperwork to process our application for energy efficiency rebates available on equipment. This saved our staff a significant amount of time and effort and resulted in receiving the rebate quickly.

- Automated Packaging

AIR POLLUTION CAPTURE | CONTROL | DESTRUCTION

PRODUCTS

- Regenerative Thermal Oxidizer (RTO)
- Direct Fired Thermal Oxidizer (DFTO)
- Recuperative Thermal Oxidizer
- Enclosed Flare
- Steam Generating Thermal Oxidizer (SGTO)
- Remediation Solutions
- Catalytic Thermal Oxidizer
- Vapor Combustor
- Concentrators (Carbon and Zeolite)
- Adsorption Systems
- Permanent Total Enclosures (PTE)
- Soil Vapor Extraction (SVE) Systems
- Scrubbers
- Odor Abatement Systems
- Used/Refurbished RTOs

As we approach the completion of our latest project, I wanted to express my sincere appreciation to the Ship & Shore team to another job well done. From engineering, to fabrication, delivery, and installation, along with the technical support provided throughout the project, your team excelled in all areas.

- **Kent Sibley, Vice President
Foam Fabricators**

SERVICES



- Engineering Design
- Permit Compliance Consulting
- VOC Collection System Design
- Installation and Service
- Preventive Maintenance (PM) Inspections
- Process Testing and Analysis
- Remote Assessment and Troubleshooting
- Waste Heat and Energy Recovery
- Upgrades and Retrofits
- Low NOx Alternatives
- Media Replacement
- Incentive/Rebate Applications



1235regulators.com

Specializing in innovative system designs for each facility is our business. Our team of experts analyze each unique process application and offer customized solutions that operate reliably and efficiently, while meeting air compliance mandates. We understand the environmental challenges for business and what equipment and data is critical. We provide assistance through all the levels: from process and emission testing to designing, manufacturing and installation of complete air pollution collection and abatement systems. Customers appreciate Ship & Shore's innovative solutions.

I must commend your company for the professionalism demonstrated during the course of the entire transaction. We have been very happy with the support of your personnel and the performance of the RTO unit. Thank you for a painless conversion.

CELLOFOAM

Ship & Shore's RTOs have proven to be reliable, energy efficient, and a good value in relationship to competing companies' products. They have always striven not just to sell us equipment, but to fully understand our processes and provide us with the best possible solution for our needs.

CARLISLE CONSTRUCTION
MATERIALS

I was impressed with the simplicity of the RTO installed - especially the single cylinder control. Your RTO appears to contain less moving parts and has been designed for easy accessibility and maintenance.

WI Department of
Natural resources



PRODUCT & SERVICES

Ship & Shore Environmental, Inc. has the capability and expertise to custom engineer and design **pollution abatement equipment** and **plant optimization services** that are specific to your process.



DIRECT-FIRED THERMAL OXIDIZER

Direct-Fired Thermal Oxidizers (DFTO) use a burner to heat up the combustion chamber to proper oxidization temperatures for the required destruction efficiency (DRE), which can reach high levels of up to 99.9% DRE. If the process emission contains high levels of Volatile Organic Compounds (VOCs) and heat content, it can be used as fuel gas for the burner. DFTOs can be combined with a waste heat boiler or hot oil heater for process efficiency.



RECUPERATIVE THERMAL OXIDIZER

Recuperative Thermal Oxidizers are designed based on VOC concentration, volume of airflow, and desired destruction efficiency. With the use of a heat exchanger, the VOC-laden process stream is preheated to its combustion temperature and converted to carbon dioxide, water vapor, and heat. This pre-heating allows the system to operate with minimal fuel consumption and can be relatively self-sustaining at moderate Lower Explosive Limit (LEL).



ENCLOSED FLARE

A flare is the simplest type of enclosed combustor technology and is mainly used for treating landfill and biogas applications. Enclosed flares typically operate at 98% destruction efficiency (DRE). Ship & Shore flares can be designed for greater than 98% DRE if needed. Other flare applications include petrochemical and chemical plants, oil and gas drilling operations, biogas treatment, tank loading terminals, and barge degassing.



STEAM-GENERATING T.O.

A Steam Generating Thermal Oxidizer (SGTO) combines a boiler with a thermal oxidizer and may be useful for manufacturing plants that use steam, hot water, or oil for process heating. SGTOs use Volatile Organic Compound (VOC) emissions as fuel for the burner, reducing overall fuel consumption and carbon footprint of the facility. It can process large air flows due to Ship & Shore's unique design and construction of the burner package.



REGENERATIVE THERMAL OXIDIZER

Regenerative Thermal Oxidizers (RTOs) are most efficient for processes that have high volumes of air streams containing low to medium VOC concentrations. RTOs will significantly reduce operating costs and energy consumption by re-directing thermal energy generated during manufacturing, which can result in a self-sustaining operation. RTOs can be combined with scrubbers and other treatment systems.



REMEDICATION SOLUTIONS

Ship & Shore offers quality solutions and equipment for groundwater and soil treatment applications. Our remediation and Soil Vapor Extraction (SVE) systems are custom engineered and designed to treat chlorinated hydrocarbon compounds and emerging contaminants of concern (COCs). We provide a wide range of solutions and technologies including oil water separators, air strippers, and Multi Phase Extraction (MPE) systems.





VALUE ADDED SERVICES

Enclosures

Depending on the needs of the customer, Ship & Shore can custom engineer and design Permanent Total Enclosures (PTE), weather enclosures, or sound enclosures. Permanent Total Enclosures (PTE) are a highly effective way to prevent fugitive emissions from entering the atmosphere. In locations where cold climate is an issue, weather enclosures can be provided to protect the system. For environments with sound requirements, sound enclosures are available.

VOC Collection Systems

A properly designed collection system is essential to meeting air quality collection requirements, maintaining proper flow through the ducting system, and safely directing Volatile Organic Compound (VOC) emissions to the pollution abatement equipment. Our Ship & Shore process engineers have the expertise to develop a design that meets all of these requirements, including ducting layout, dimensions, dampers, and installation of the collection system.



Ship & Shore RTO with Heat Exchanger for waste heat recovery

Air Permitting

Air permits document how air pollution sources will operate in compliance with emission limits and with other applications of the process. Our systems have met and continue to meet the most stringent air quality permit requirements. Ship & Shore project managers provide all drawings, calculations, and technical assistance needed for state and local air permit applications and modifications associated with the project.

Incentive/Rebate

Government-funded programs have been established through natural gas and electric utility providers to help mitigate costs associated with implementing environmental efforts. With the installation of energy-efficient technology or waste heat recovery options, cash incentives can be earned. Ship & Shore has helped many of our customers apply for and receive thousands of dollars in rebates from these incentive programs.

Energy Analysis

As your engineering partner, we help analyze your current energy usage and offer cost-effective methods to reduce energy consumption and lower overall operating costs. We have the expertise to custom design systems capable of capturing waste heat generated from various process sources and redirect to other areas of production to save and re-use energy. Let us gather the data and provide solutions you need.

AFTERMARKET SERVICES

PM INSPECTIONS

To ensure optimum performance of your pollution abatement system, annual Preventive Maintenance (PM) Inspections are vital. Ship & Shore trained technicians can service any brand of oxidizer. These annual inspections reduce the risk of nuisance shutdowns, help ensure the system is always in compliance, and improves overall equipment efficiency. Potential damages can be avoided with early detection, as existing problems or signs of future ones will be evaluated and recorded. After assessment and inspection of the oxidizer, a written report outlining observations and recommendations for spare parts, repairs, or maintenance is provided.



OTHER SERVICES:

- Media Replacement
- Spare Parts
- Repairs & Retrofits
- Remote Assessment and Troubleshooting
- PLC and HMI Upgrades
- Process Testing and Compliance
- Waste Heat Recovery
- Low NOx Burners



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